COM.TEC®
THE MULTI-PROCEDURAL APERATURESIS PLATFORM
COM.TEC®
The multi-procedural apheresis platform

- Donation as well as therapeutic procedures
- Continuous flow technology
- Component collection outside of the centrifuge
- Optional single-needle mode for selected protocols
- Ultimate donor/patient safety
- Apheresis sets with pre-donation capability
- Easy (drawer like) installation of the separation chamber
- Automatic or manual process management for all protocols
- Equipped as standard with printer
- Apheresismaster – the optional data management
The “Apheresismaster” provides a bi-directional radio transmission capability of cell separators with a server PC. As an option, the server PC can be linked to the lab and the central data base. The total monitoring of the production process with central documentation provides completely new perspectives. Apheresismaster documents all procedures available on COM.TEC®.

**CENTRALIZED MONITORING**
- For supervising the production process.
- All relevant separation data are immediately available when alarms occur.

**DOCUMENTATION**
- Create your individual separation records matching your requirements. The complete records can be transmitted and printed on any PC.
PLATELET COLLECTION

- Leuko-depleted platelet units without filtration
- Platelet collection in dual- or single-needle mode available
- Plasma recirculation for optimal flow conditions
- Donor-tailored separation parameters, for example “best flow”
- Protocol also recommended for therapeutic platelet depletion

By the plasma recirculation the hematocrit in the separation chamber is adjusted to 37% and almost constant flow conditions are maintained. This also prevents modulations of the interface, and high level platelet quality is achieved.

The RBC barrier ensures the leuko-depleted flow of platelets into the second separation step.

THERAPEUTIC PROTOCOLS

Therapeutic plasma exchange
- Plasma exchange efficacy 87% on average
- Single-needle mode available

RBC depletion
- Accurate achievement of desired post Hct
- Short procedure times

RBC exchange
- Implemented RBC replacement calculator
- Accurate achievement of desired post Hct
- Very efficient HbS depletion

Plasma treatment on adsorber columns
- Flexible use of different adsorber columns

Therapeutic depletion of platelets
STEM CELL COLLECTION

- Variable protocol selection due to different donor/patient conditions
- Protocol selection dependent on targets
- Lymphocyte collection for consecutive photochemotherapy and donor lymphocyte infusions (DLI)
- CD34+ prediction

**Correlation of predicted vs. collected CD34+ yield**

\[ \text{CD34+ (predicted)} [10^6 \text{ Cells}] \]

**AutoMNC procedure for automated collection:**

The spillover sensor detects the passing cell fraction and triggers the spillover clamp from "return" to "collection".
Programs and disposables COM.TEC®

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<td>Peripheral blood stem cell collection, reduced collection volume</td>
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<td>autoMNC stem cells</td>
<td>Automatic collection of peripheral blood stem cells, mononuclear cell collection</td>
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<td>autoMNC lymphocytes</td>
<td>Automated collection of lymphocytes in dual needle mode for consecutive photochemotherapy or DLI*</td>
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<td>Granulo</td>
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<td>BMSC</td>
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<td>Therapeutic red cell exchange or depletion</td>
<td>PL1; US: RBC</td>
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<td>PL1; US: TPE</td>
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<td>Adsorb</td>
<td>Therapeutic plasma treatment e.g. immunoadsorption</td>
<td>P1R</td>
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*DLI (donor lymphocyte infusion)